

INTERNATIONAL SEARCH REPORT

PCT/GB 03/01485

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N33/68 C12Q1/68 C07K1/13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N C12Q C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 31830 A (BRAX GENOMICS LTD ; THOMPSON ANDREW HUGIN (GB); SCHMIDT GUENTER (GB) 23 July 1998 (1998-07-23) page 2 -page 4 page 11 -page 12 page 17 -page 18 page 27 -page 28 page 34 -page 36 page 41 -page 43; figures 5-7 --- -/--	1,3,4, 7-10,45

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

18 August 2003

Date of mailing of the international search report

02/09/2003

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 68664 A (THOMPSON ANDREW HUGIN ;BRAX GROUP LTD (GB); SCHMIDT GUNTER (GB); J) 20 September 2001 (2001-09-20) page 4, paragraph 4 -page 4, paragraph 5 page 9 -page 16 page 22 -page 24 page 32 page 64 -page 69; figures 6,10	1,3,4,7, 9,14,25, 26, 29-31, 38,39,45
Y	---	15-24, 27,28, 32-44, 47-49
Y	WO 00 20870 A (THOMPSON ANDREW HUGIN ;BRAX GROUP LTD (GB); SCHMIDT GUENTER (GB)) 13 April 2000 (2000-04-13) page 5 -page 8 page 14 -page 15	15-24
P,X	WO 02 29003 A (UNIV COLUMBIA) 11 April 2002 (2002-04-11) page 26, line 4 -page 28, line 15 page 37 page 56, line 9 -page 58, line 20; figures 3,4,7	32, 35-37,43
Y	PATENT ABSTRACTS OF JAPAN vol. 017, no. 506 (C-1110), 13 September 1993 (1993-09-13) & JP 05 137599 A (TAKARA SHUZO CO LTD), 1 June 1993 (1993-06-01) abstract	27,28, 32-44
Y	US 5 708 137 A (TOTH MIHALY V ET AL) 13 January 1998 (1998-01-13) abstract; example 1	27,28, 32-44
A	M. MÜNCHBACH ET AL: "Quantitation and facilitated de novo sequencing of proteins by isotopic N-terminal labeling of peptides with a fragmentation-directing moiety" ANALYTICAL CHEMISTRY, vol. 72, 2000 - 8 March 2000 (2000-03-08), pages 4047-4057, XP002208695 the whole document	25-37, 43-46
A	WO 99 60007 A (HAMILTON ALAN LEWIS ;SHCHEPINOV MIKHAIL SERGEEVICH (GB); SOUTHERN) 25 November 1999 (1999-11-25) page 40	25-37, 43-46

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02 12893 A (MASSACHUSETTS INST TECHNOLOGY) 14 February 2002 (2002-02-14) page 14 -page 16 ---	25-37, 43-46
A	US 5 986 076 A (OLEJNIK JERZY ET AL) 16 November 1999 (1999-11-16) figures 1-21 ---	25-37, 43-46
Y	WEINBERGER S R ET AL: "RECENT TRENDS IN PROTEIN BIOCHIP TECHNOLOGY" PHARMACOGENOMICS, ASHLEY PUBLICATIONS, GB, vol. 1, no. 3, November 2000 (2000-11), pages 395-416, XP009009627 ISSN: 1462-2416 cited in the application the whole document -----	47-49

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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 25-49(partially)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 25-49(partially)

Present claims 25-49 relate to an extremely large number of possible compounds/arrays/kits. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds/arrays/kits claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to compounds (and arrays and kits comprising said compounds) comprising (i) photocleavable mass tags as labels for detection of polypeptides/nucleic acids by mass spectrometry, and (ii) peptides labeled with DABSYL.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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